

# **Swann** DVR4 1000

## USER MANUAL



SW242-DU2

### **FCC WARNING STATEMENT**

This device complies with Part 15 of FCC Rules.

Operation is subject to the following two conditions:

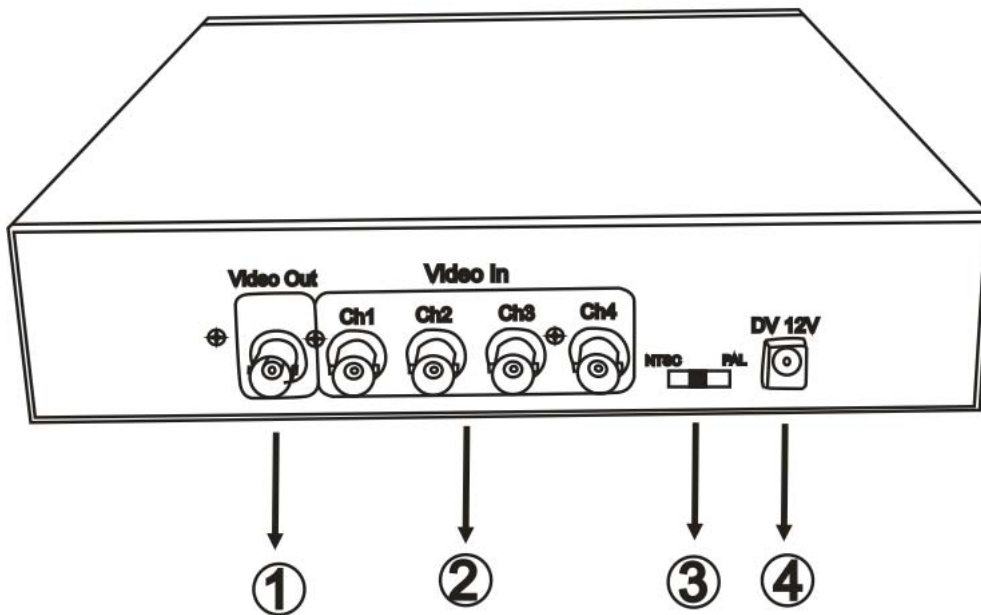
(1) This device may not cause harmful interference, and

(2) this device must accept any interference received,

including interference that may cause undesired operation

## 1.CONFIGURATION

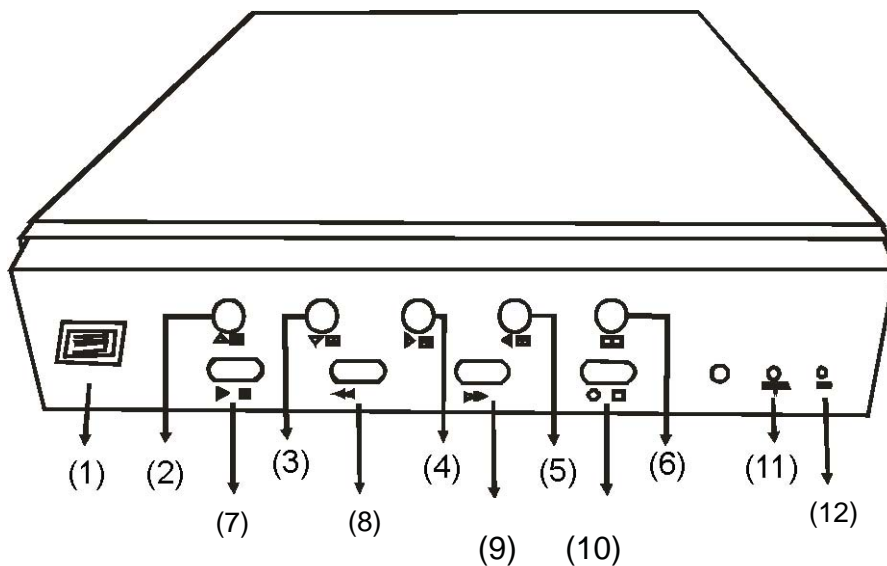
### REAR VIEW



- (1) Video Output to TV.
- (2) Video Input : CH1 -CH4 camera inputs
- (3) TV System Switch: PAL / NTSC
- (4) Power Input: DC 12V / 4A

## FRONT PANEL

- (1) USB PORT
- (2) Move Up / camera 1
- (3) Move Down / Camera 2
- (4) Move Right / Camera 3 / Select
- (5) Move Left / Camera 4
- (6) Menu
- (7) Play / Pause
- (8) Rewind
- (9) Fast Forward / Sequence Switch / Select
- (10) Record / Stop
- (11) Power Indicator
- (12) HDD activity Indicator



### NOTE:

All jurisdictions have specific laws and regulations relating to the use of cameras. Before using any camera for any purpose, it is the buyer's responsibility to be aware of all applicable laws and regulations that prohibit or limit the use of cameras and to comply with the applicable laws and regulations. The legality of watching people other than yourself changes from country to country and even state to state. Contact your local government's privacy information body or your local Police for more information on what if any restrictions you may face.

## 2.SETTINGS

MAIN MENU

SYSTEM SETUP  
CAMERA SETUP  
RECORD SETUP  
RECORD SCHEDULE  
MOTION SETUP  
HARD DRIVE SETUP

SYSTEM RESTORE

(▲▼): SELECT (◀▶): SET (■): EXIT

Press ▲▼ to select items, use ◀▶ to enter.  
Press ■ to exit

### SYSTEM SETUP

SYSTEM SETUP

BUZZER ALARM TIME : 2  
LOSS ALARM : [ ON ]  
PASSWORD SETUP  
TIME SETUP

(▲▼): SELECT (◀▶): SET (■): EXIT

Press ▲▼ to select items, use ◀▶ to enter.  
Press ■ to exit

### PASSWORD SETUP

Select this item to change password :

CURRENT PASSWORD : \_\_\_\_\_  
NEW PASSWORD : \_\_\_\_\_  
CONFIRM PASSWORD : \_\_\_\_\_

- (1) When the new password is accepted, you will receive a message that inform you. PASSWORD CHANGED
- (2) If the password was not accepted, you will receive a message that inform you. NO PASSWORD CHANGED

\*Use the view control button on the front panel to input the number.

is:"1" is:"2" is:"3" is:"4"

## TIME SETUP

Select this item to set up current time.

```
TIME SET
2004/12/17 18:00:30
(◀▶):SELECT (▲▼):SET (■):EXIT
```

Press ▶◀ to select items, use ▲▼ to enter.

Press ■ to exit

## CAMERA SETUP

```
CAMERA SETUP
CAMERA : CH1
LIVE ON/OFF : ON
RECORD ON/OFF : ON
BRIGHT SETUP : 5
CONTRAST SETUP : 5
COLORS SETUP : 5
AUTO SWITCHING : 2
(▲▼):SELECT (◀▶):SET (■):EXIT
```

Press ▲▼ to select items, use ▶◀ to enter.

Press ■ to exit

## RECORD SETUP

```
RECORD SETUP
RECORD MODE : EACH
VIDEO QUALITY : NORMAL
RECORD FRAME RATE : 30
(▲▼):SELECT (◀▶):SET (■):EXIT
```

Press ▲▼ to select items, use ▶◀ to enter.

Press ■ to exit

(1) Record Setup:EACH MODE (frame recording).

Each Mode frame rate alternatives as follows:

Maximum : 7.5 fps each camera Totally :30 fps = 7.5 x 4 CH

QUAD MODE (quad recording).

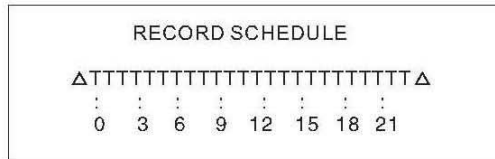
In this mode is:"1" 、 is:"2" 、 is:"3" 、 is:"4" invalid.

(2) Video Quality: video quality selection: High, Normal, Low

(3) Record Frame Rate: QUAD MODE frame rate alternatives as follows:

Enable Audio Record → 30 、 15 、 10 、 7 、 5 、 4 fps.

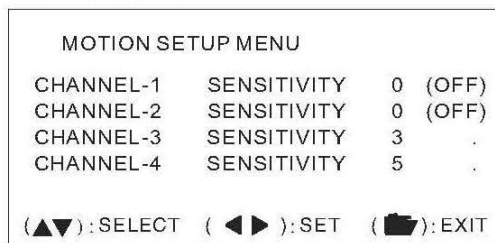
## PROGRAMMED RECORD



Press ◀▶ to select items, use ▲▼ to enter.  
Press [EXIT] to exit

- (1)Range: 0-24 hrs.
- (2)Set "T" for continuous recording.
- (3)Set "M" for motion recording.
- (4)Set up "-" to disable the recording.

## MOTION SETUP



Press ▲▼ to select items, use ◀▶ to enter.  
Press [EXIT] to exit

- ★ If you want to enable Motion Recording, Please finish the setup procedure a. and b.
  - a. Set SENSITIVITY in the menu option "MOTION SETUP MENU"
  - b. Set "PROGRAMMED RECORD" --- "M" in the menu option "RECORD SCHEDULE".

## 3. VIEW CONTROL

- (1)You can use the following view control buttons to monitor the video from the cameras.
  - [VIEW1] Camera #1 (Ch1), return to Quad Mode by press again.
  - [VIEW2] Camera #2 (Ch2),return to Quad Mode by press again.
  - [VIEW3] Camera #3 (Ch3),return to Quad Mode by press again.
  - [VIEW4] Camera #4 (Ch4),return to Quad Mode by press again.
- (2)View Control is only valid while the RECORD MODE is in the EACH MODE.  
QUAD Display, Enable / Disable theAuto switching function.

HARD DRIVE SETUP

OVERWRITE ENABLED	[YES]
MASTER HDD SIZE	500396 MB
MASTER HDD USED	4405 MB
MASTER HDD FORMAT	

{▲▼}:SELECT {◀▶}:SET {■}:EXIT

Press ▲▼ to select items, use ▶◀ to enter.  
Press ■ to exit

PASSWORD INPUT (6): \_ \_ \_ \_ \_ \_

{▲▼}:SELECT {◀▶}:SET {■}:EXIT

Press ▲▼ to select items, use ▶◀ to enter.  
Press ■ to exit

Note: Default password is 111111.

SYSTEM RESTORE

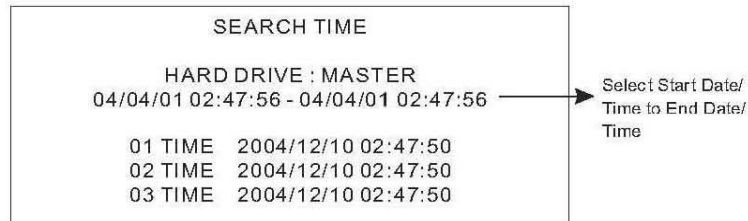
SYSTEM RESTORE	[YES]
----------------	-------

{▲▼}:SELECT {◀▶}:SET {■}:EXIT

Press ▲▼ to select items, use ▶◀ to enter.  
Press ■ to exit

#### 4. PLAYBACK CONTROL

- (1) Press ►, and the system will play the latest event which you haven't seen before.
- (2) Press ⏏, and the system will enter the PLAYBACK EVENTS SEARCH MODE.
- (3) Each period is as four hour.



Press ▲▼ to select items, use ◀▶ to enter.  
Press ⏏ to exit, ● select event / time.

Press ● to switch between the TIME SEARCH MODE and the PLAYBACK EVENTS SEARCH MODE,  
Press ⏏ to exit.

##### (1)EVENTS SEARCH MODE :

Press ▲▼ choose one period, then press ► to play.

##### (2)TIME SEARCH MODE :

The signal > goes up to the HARD DRIVER: MASTER. Press ◀▶ to select items. Use ▲▼ select to change data, Then press ► to play.

##### (3)PLAYBACK :

- \*Press ►► to speed forward. Continue to press ►► and show ►►X2, ►►X4, ►►X8 , playing.
- \*Press ◀◀ to rewind the playback.
- \*Press || to pause.
- \*Press ■ to stop.

#### 5. RECORD CONTROL

- (1) Press ● to start recording.
- (2) During recording, the mark \* appears in status of overwriting



## 6. 4CH Recording Hours

**NOTE :** The table below is an average number of hours you can continually record for on an 80GB hard drive. This is an approximate time only since the amount of movement and the complexity of the image can cause the recording times to vary.

Recording Results in NTSC Format			30 fps	15 fps	7 fps	1 fps
Video Signal	Display Format	Video Quality				
NTSC	QUAD MODE	High	36Hours	72 Hours	144 Hours	1,080 Hours
		Normal	48 Hours	96 Hours	192 Hours	1,440 Hours
		Basic	58 Hours	116 Hours	232 Hours	1,740 Hours
	EACH MODE (Full Screen)	High	64 Hours	128 Hours	256 Hours	1,920 Hours
		Normal	90 Hours	180 Hours	360 Hours	2,700 Hours
		Basic	112 Hours	224 Hours	448 Hours	3,360 Hours
Recording Results in PAL Format			25 fps	12 fps	6 fps	1 fps
Video Signal	Display Format	Video Quality				
PAL	QUAD MODE	High	38 Hours	76 Hours	152 Hours	950 Hours
		Normal	48 Hours	96 Hours	192 Hours	1,200 Hours
		Basic	60 Hours	120 Hours	240 Hours	1,500 Hours
	EACH MODE (Full Screen)	High	62 Hours	124 Hours	248 Hours	1,550 Hours
		Normal	90 Hours	180 Hours	360 Hours	2,250 Hours
		Basic	118 Hours	236 Hours	472 Hours	2,950 Hours

## 7. DVR Viewer User Guide

### Introduction

This document is the Operation Manual for the 4 CH Stand Alone DVR PCViewer.

The application will show you stream image stored in the Storage Device (HDD, CF card, USB Memory Stick, etc.), which was previously formatted and recorded by the DVR.

If any DVR-formatted Storage Device is connected to your PC, the application will automatically detect the Storage Device and show the recorded stream. You can also save the current screen to a JPEG file, and save the video/audio stream to a file [MYS file, the Vineyard's proprietary video/audio stream file format.

The application consists of two functional modules:

- ▶ DVR PC Viewer Shows stream stored in the DVR Storage Device.
- ▶ MYS File Player Plays captured stream file.

### Terms in This Document

Storage Device	Hard Disk, CF Card, USB Memory Stick
The Application	DVR Storage Device PC Viewer
DVR Storage Device	Storage Device which was previously formatted and recorded by the DVR base on Vineyard Technologies' DVR chip.
OS	Operating System
CPU	Central Processing Unit
RAM	Random Access Memory
GUI	Graphic User Interface

### Requirement

OS	OS of your PC should be Windows 2000(SP4) / XP(SP2) or later.
DirectX	Your PC should be equipped with DirectX 7.0 or later.

### Recommendation

Operating System (OS)	The application runs only on Windows 2000 (SP4) / XP (SP2) or later
CPU	1.0 GHz or Higher.
RAM	256 MByte or greater.

## ■ Installation

### A. Hardware Installation

Before executing the application, connect the DVR Storage Device to the IDE cable of your PC directly, or via USB adaptor

### B. Software Installation

Run Setup.exe in the CD-ROM and follow the instruction to finish the installation.

[Make sure that the OS of your PC is Windows 2000 SP4/Windows XP SP2 or later.

## ■ Execution

Just double click the icon of PC Viewer. The application will try to detect physical storage devices installed at your PC and search for DVR storage device(s) among them.

If there is DVR Storage Device, the application will automatically start playing. However, If the application fails to detect DVR Storage Device, which means that there is no DVR Storage Device installed to your system, it will show following error message and set the default working mode to MYS Player (See Section. 4).



Fig.1. No DVR Storage Device Message

## IMPORTANT NOTE:

### ■ Shortcut to play the video files on your PC via the attached USB cable:

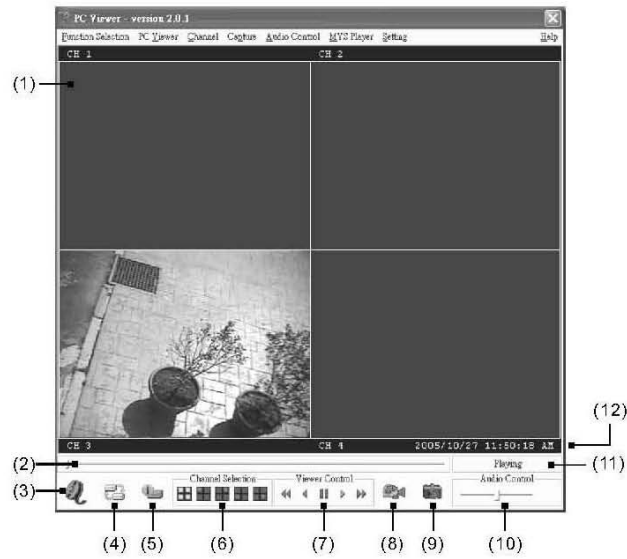
- a. Connect USB cable both ends to the USB port of the DVR and your PC.
- b. Supply 12VDC power to the DVR.
- c. Wait until the message of USB detected pops up on the VGA monitor.
- d. Run the PC Viewer software accordingly.
- e. Wait until the very first image comes up to the PC Viewer.
- f. Click "Play" icon on the control panel of the PC Viewer to start viewing the video files.

**NOTE : To avoid hard disk corruption, Do Not "Stop" the USB Mass storage device using the icon on the Windows taskbar, simply unplug the cable from the DVR when finished.**

## ■ DVR PC Viewer

### A. User Interface

The default page of the application is DVR Storage Device PC Viewer. The user interface is shown in Fig.2.



(1) Screen	(7) PC Viewer Playback Control
(2) Positioning Slider Bar	(8) Capture Stream Button [MYS]
(3) MYS Player Button	(9) Screen Capture Button [JPEG]
(4) DVR Storage Device Change Button	(10) Audio Control (not available for this model)
(5) DVR Storage Device Information	(11) Viewer Playback Mode
(6) Channel Selection	(12) Stream Time Display

Fig.2. DVR Storage Device PC Viewer User Interface

## B. Functions

### i. MYS Player Button

If you want to see MYS file which was stored in your PC, press this button or press [F2] key.

### ii. DVR Storage Device Change Button

When there are more than one DVR storage devices, this button will be activated. Press this button when you want to see video/audio stream stored in other DVR storage device. Fig.3 shows DVR storage device selection window.

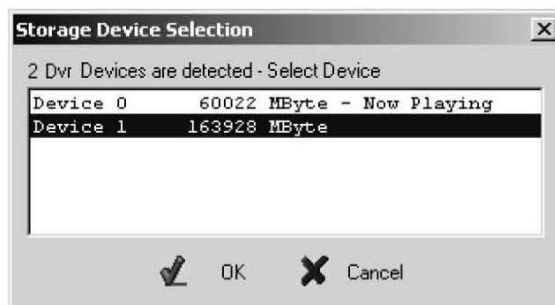


Fig.3. DVR Storage Device Selection Window

iii. DVR Storage Device Information Button

If you want to know how big is the DVR storage device is, or how much stream data is stored in the device, press this button. Fig.4 shows the DVR storage device information window.




Fig.4. DVR Storage Device Information Window


iv. Channel Selection Buttons


According to the record channel setting of the stream, each channel buttons will be enabled. Select any channel you want to see enlarged.





Fig.5. Channel Selection Buttons

Press  button (or [ 5 or Numpad 5 ] Key) to see all 4 channels at the same time.

Press  button (or [ 1 or Numpad 1 ] Key) to see channel 1 enlarged.

Press  button (or [ 2 or Numpad 2 ] Key) to see channel 2 enlarged.

Press  button (or [ 3 or Numpad 3 ] Key) to see channel 3 enlarged


Press  button (or [ 4 or Numpad 4 ] Key) to see channel 4 enlarged.


v. Viewer Control Buttons


Use Viewer Control Buttons to control viewer playback.





Fig.6. Viewer Control Buttons

\*Press  button (or [-<] Key) to start fast reverse playback. By pressing this button again, you can adjust the speed. The maximum speed is 8 times faster than reverse playback.

\*Press  button (or [-<] Key) to start reverse playback.

\*Press  button (or [Space Bar]) to pause playback.

\*Press  button (or [->] Key) to start normal playback.

\*Press  button (or [->] Key) to start fast forward playback. By pressing this button several times, you can adjust the speed. The maximum speed is 8 times faster than normal playback.

## VI. Capture Stream Button

Follow the Capture Instructions below for capturing the stream.

- 1 Use Position Slider Bar to find the stream position required.

Make sure that the play back is in PAUSE mode, and the Capture Stream Button is enabled.

- 2 Press the button, the capturing indicator window will pop up while it's capturing.



Fig.7 Capturing Indicator Window

- To stop capturing, press the Stop Capturing button on the window. The captured file (MYS file) will be stored in the Capture Directory. Refer to the Application Setting section for more details.

## VII. Screen Capture Button

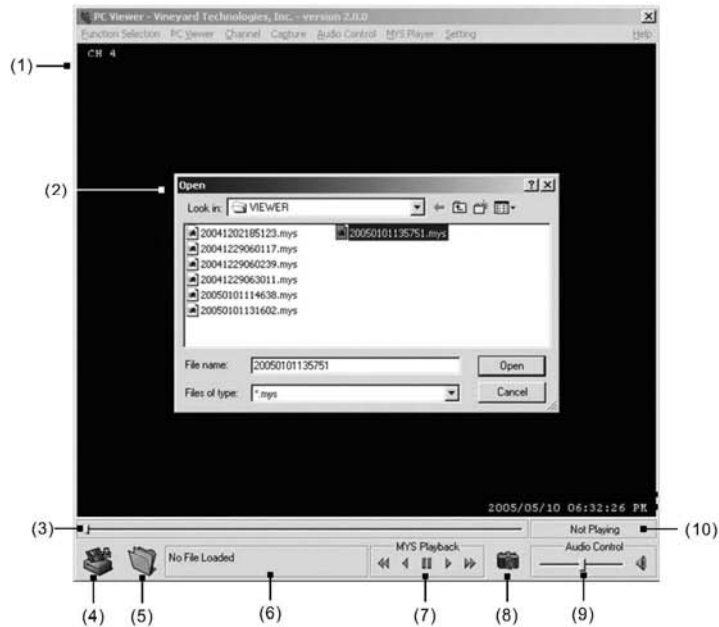
- 1 Use the Position Slider Bar to find the stream position required.

2 Make sure that the play back is in PAUSE mode, and the Capture Stream Button is enabled.

- 3 Press the button, JPEG image file will be created and DVR4-1000 will inform you the file name and the Capture Directory Path.

# MYS Player

## A. User Interface



(1) Screen	(6) MYS file information
(2) MYS File Select Dialog	(7) MYS File Playback Control
(3) Positioning Slider Bar	(8) Screen Capture Button [JPEG]
(4) PC Viewer Button	(9) Audio Control (not available for this model)
(5) File Open Button	(10) Playback Status

Fig.9. MYS File Player User Interface

## B. Functions

### i. PC Viewer Button

When you want to back to PC Viewer function, press this button.

### ii. File Open Button

Press this button to select MYS file.

### iii. MYS file information

When an MYS file selected and being played, the file name and the file size will be displayed in the MYS file information box.

### iv. MYS file Playback Control Buttons

Use MYS file playback buttons to control the playback.



Fig.10. MYS file playback control Buttons

- \* Press ◀ button (or [-] Key) to start fast reverse playback. By pressing this button again, you can adjust the speed. The maximum speed is 64 times faster than reverse playback.
- \* Press ◀ button (or [-] Key) to start reverse playback.
- \* Press || button (or [Space Bar]) to pause playback.
- \* Press ▶ button (or [=] Key) to start normal playback.
- \* Press ▶▶ button (or [=] Key) to start fast forward playback. By pressing this button several times, you can adjust the speed. The maximum speed is 64 times faster than normal playback.

v. Screen Capture Button

If you want to capture the screen, follow the screen capture procedure listed below:

- \* Using Positioning Slider Bar find the stream position you want.
- \* Make sure that the playback is in PAUSE mode, and the Screen Capture Button is enabled.
- \* Press the button, then the application will start to make a JPEG file. When a JPEG file successfully created. The application let you know that the image file is created showing the file name and the capture direct path

## Application Setting

### A. User Interface

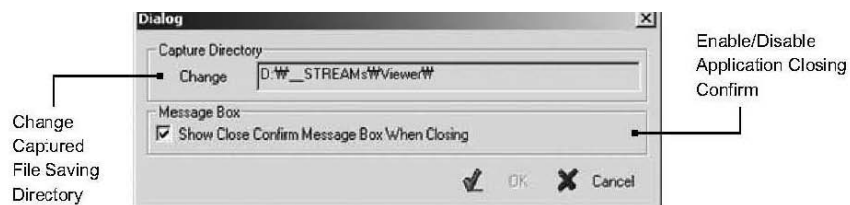


Fig.12. Application Setting Dialog

### B. Functions

#### i. Capture Directory

You can specify Capture Directory. To change the path, press Change Button, select directory you want, and press OK again.

#### ii. Message Box

You can enable/disable the application close confirm message box.



## 8. SPECIFICATIONS

OPERATION SYSTEM	Embedded RTOS		
Video Input	NTSC/PAL		
Video Input Channel	4CH Composite		
Video Output Channel	1CH Composite		
Display Frame	NTSC	120 fps (4x30 fps)	
	PAL	100 fps (4x25 fps)	
Recording Frame Rate(QUAD)	NTSC	Max . 30 fps	
	PAL	Max. 25 fps	
Recording Frame Rate(EACH)	NTSC	M x. 7.5fps(30 fps/4) a	
	PAL	Max. 6.25fps(25 fps/4)	
Recording Mode	Motion Continuous // Programmed		
Resolution	Display	NTSC	720 x 480
		PAL	720 x 576
	Recording	NTSC	640x224
		PAL	640x272
Compression Format	Advanced MJPEG	Low	12K Bytes / Frame
		Normal	15K Bytes / Frame
		High	20K Bytes / Frame
Supported HDD	400GB X 1 (Maximum tested size)		
Backup Device	VCR		
Search	Mode	Time / Date / Event	
	Full screen	YES	
MOTION DETECT	YES		
LOSS DETECT	YES		
BUZZER OUTPUT	YES		
Brightness adjust	YES		
Contrast adjust	YES		
USB Output	YES		
System monitor	Power recover auto restore record mode		
Power supply	DC 12V / 4A(AC110V-240V 50/60HZ)		
Dimension	8 <sup>2</sup> / <sub>3</sub> " x 11 <sup>1</sup> / <sub>3</sub> " x 2" (W x D x H) 220mm x 288mm x 48mm (W x D x H)		
Weight	4 <sup>1</sup> / <sub>2</sub> lbs/2 KG		